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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/672,006	09/26/2003	Cary Joseph Martin	0179.0036	7694
37247	7590 07/05/2005		EXAMINER	
DAVID J. OLDENKAMP, ESQ. SHAPIRO & DUPONT LLP			NUTTER, NATHAN M	
233 WILSHIRE BOULEVARD, SUITE 700			ART UNIT	PAPER NUMBER
SANTA MONICA, CA 90401			1711	

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/672,006	MARTIN, CARY JOSEPH	
Office Action Summary	Examiner	Art Unit	_
	Nathan M. Nutter	1711	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on _	•		
2a) ☐ This action is FINAL . 2b) ☒	This action is non-final.	•	
3) Since this application is in condition for all	owance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice und	der <i>Ex parte Quayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-25 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers 9) The specification is objected to by the Example and the subject of the specification	ndrawn from consideration. nd/or election requirement. miner. is/are: a) accepted or b) the drawing(s) be held in abeyancection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docun 2. Certified copies of the priority docun 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in a priority documents have been ureau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s)	•		
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>0405</u>. 		s)/Mail Date Informal Patent Application (PTO-152) 	

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The broad claims attempt to define the particulate component to comprise "particles of a rigid-rod polymer that have a dissolution temperature where said rigid-rod polymer particles dissolve in said resin component" and where the mixture "forms a heat-set mixture when said heat-settable resin mixture is heated to a temperature that is equal to or above the dissolution temperature of said rigid-rod polymer and below said curing temperature of the heat-settable mixture," without specifying what the composition of either constituent may comprise, including the resin, curing agent or particulate. Nor is there sufficient recitation to know what the temperatures of dissolution and curing may be, or any range specifying the same. Further, the process recites heating and cooling steps that require knowledge of these values in order to practice the invention. Further, claims 4, 10, 16 and 21 recite the trademarks "PX1000" and "PX1200" which are not defined. The use thereof renders the claims as vague. Note MPEP 608.01(v) in this regard:

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Art Unit: 1711

The relationship between a trademark and the product it identifies is sometimes indefinite, uncertain, and arbitrary. The formula or characteristics of the product may change from time to time and yet it may continue to be sold under the same trademark. In patent specifications, every element or ingredient of the product should be set forth in positive, exact, intelligible language, so that there will be no uncertainty as to what is meant. Arbitrary trademarks which are liable to mean different things at the pleasure of manufacturers do not constitute such language. *Ex Parte Kattwinkle*, 12 USPQ 11 (Bd. App. 1931).

The references to Lenke et al, Lando, Gagné et al and Hsaio et al are all cited of interest. Lenke et al teach the production of a composite material resin with a rigid rod polymer dissolved initially in the matrix polymer precursors (monomers) with subsequent polymerization. Note the Abstract. The reference to Lando et al teaches essentially the production of a molecular composite comprising a rigid rod polymer is dissolved in a solution of the thermosetting resin, with subsequent curing and solvent removal. Note the Abstract. Gagné et al teach the production of a rigid rod polymer, as employed herein. Note the Abstract. The reference to Hsaio et al teaches the production of a prepreg similar to that claimed herein except there is no rigid rod polymer included. Note the Abstract.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on 9:30 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Nathan M. Nutter Primary Examiner Art Unit 1711

nmn

26 June 2005